

1/11

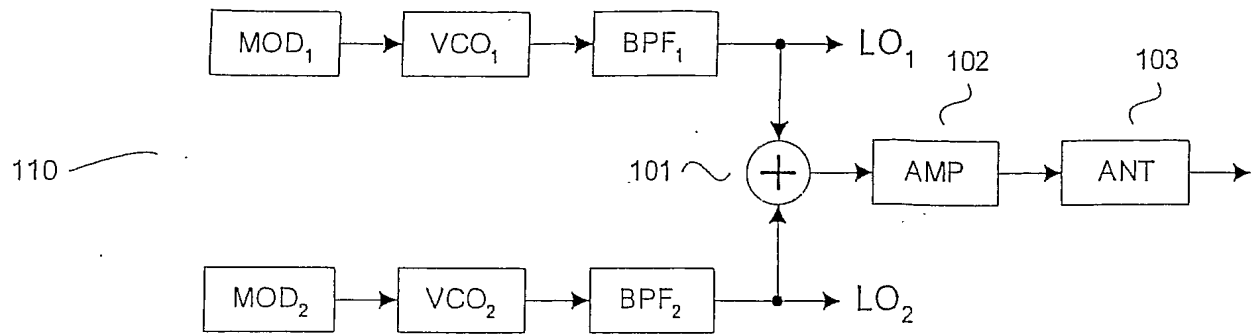


Fig. 1a Transmitter

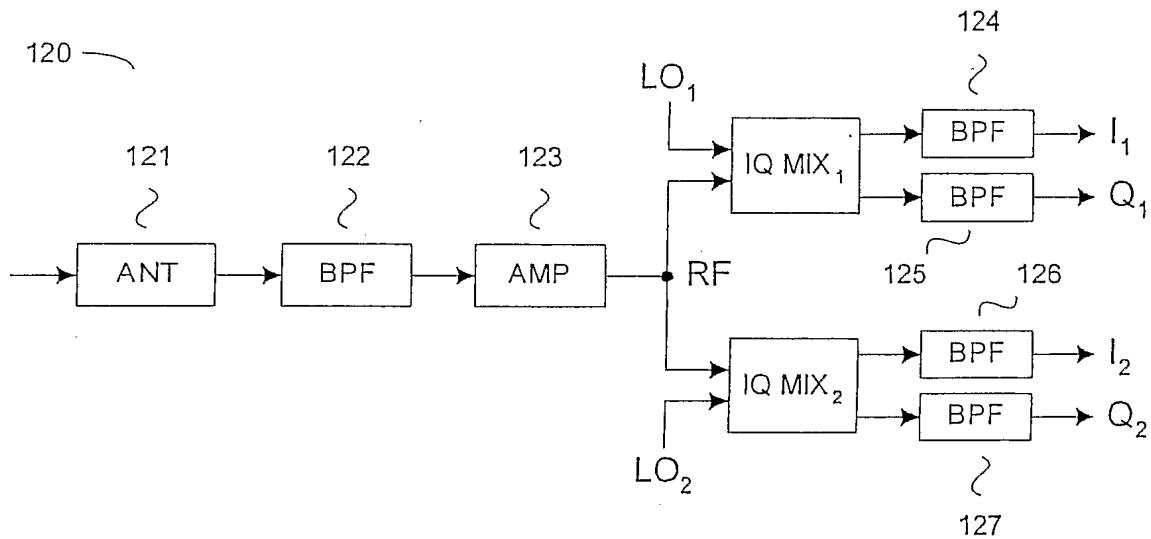


Fig. 1b Receiver (one channel)

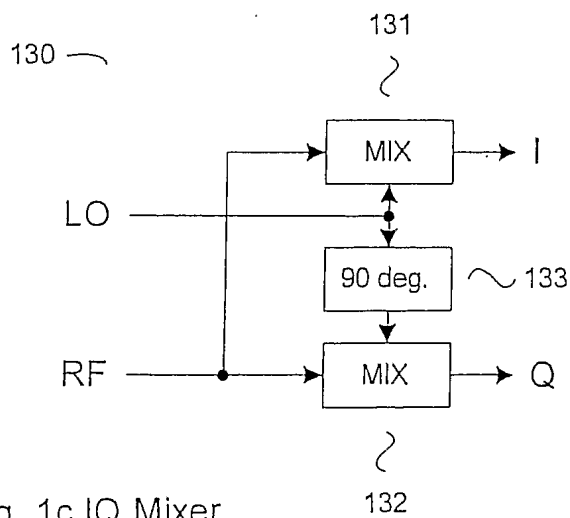


Fig. 1c IQ Mixer

Relative Location of Receive  
Antenna Channels  
(as seen from behind the antenna)

1	2
3	4

Figure 2

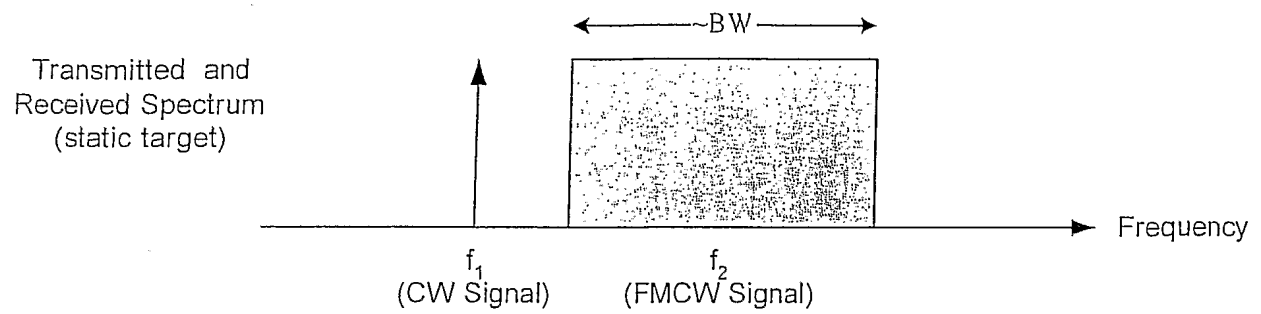


Figure 3a

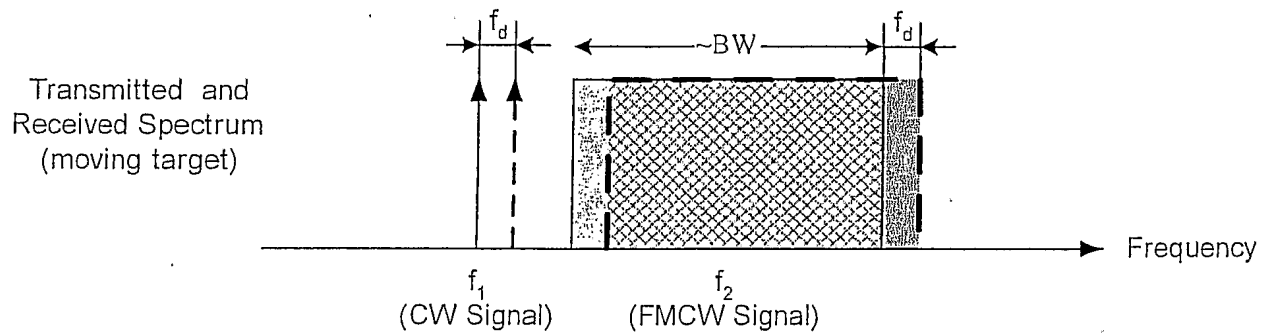


Figure 3b

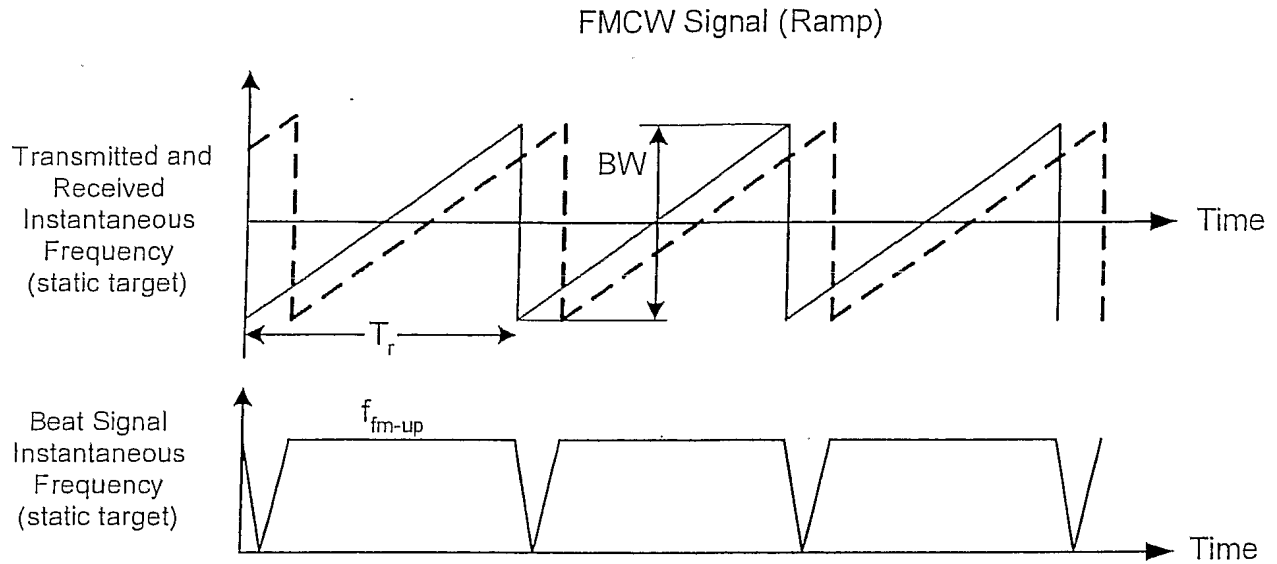


Figure 4a

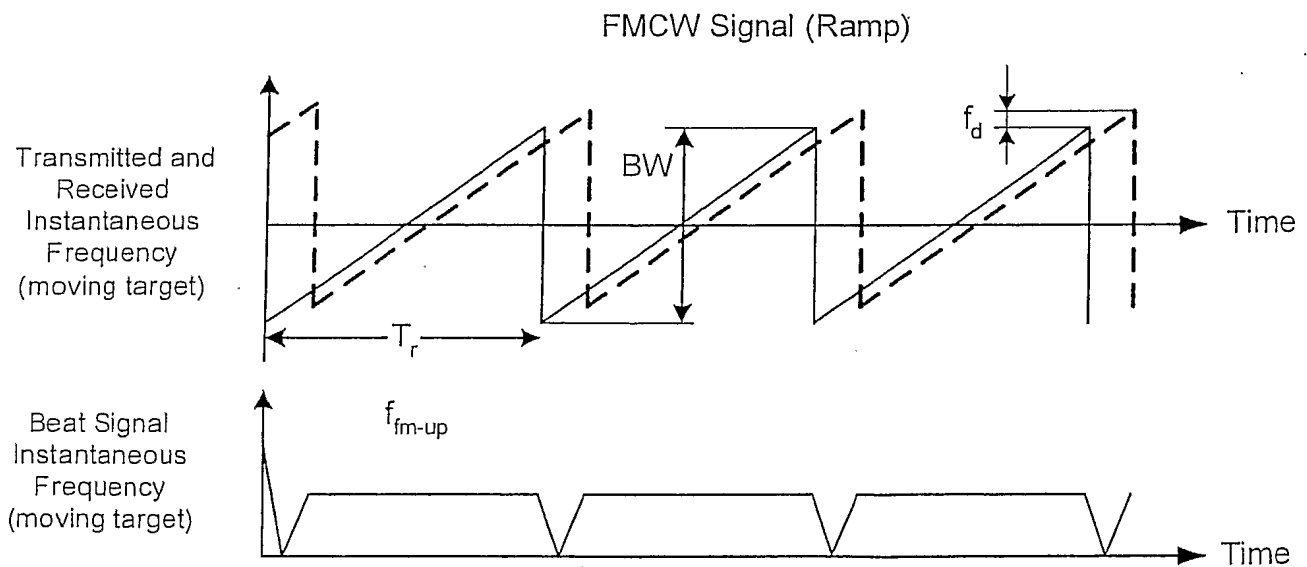


Figure 4b

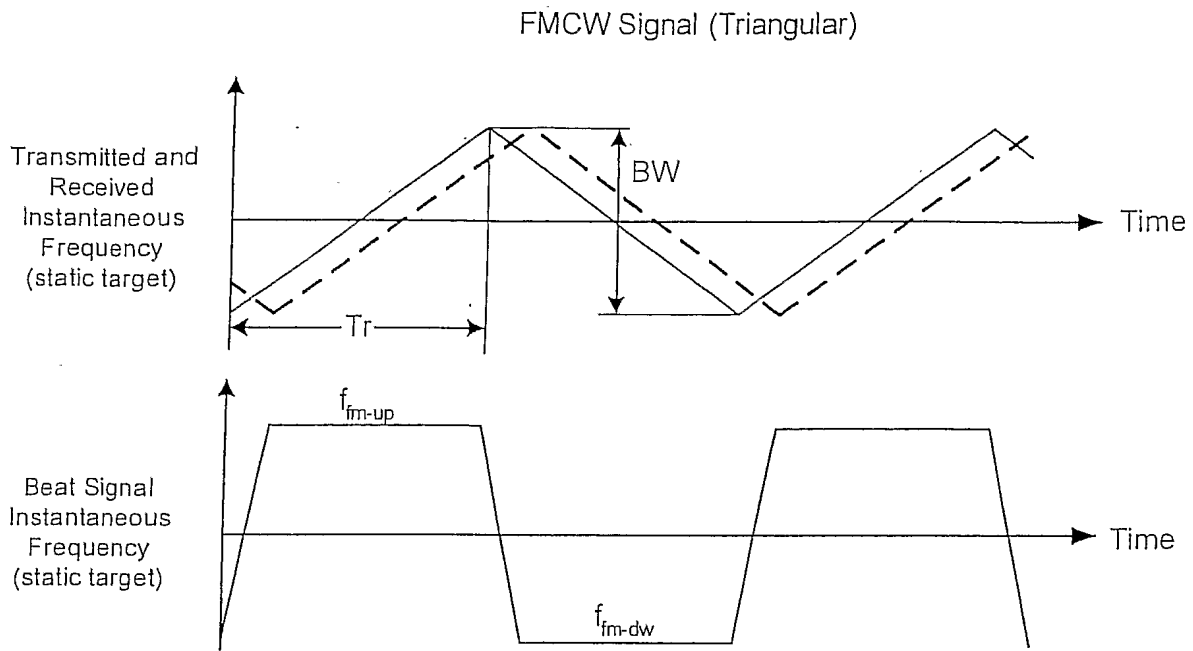


Figure 5a

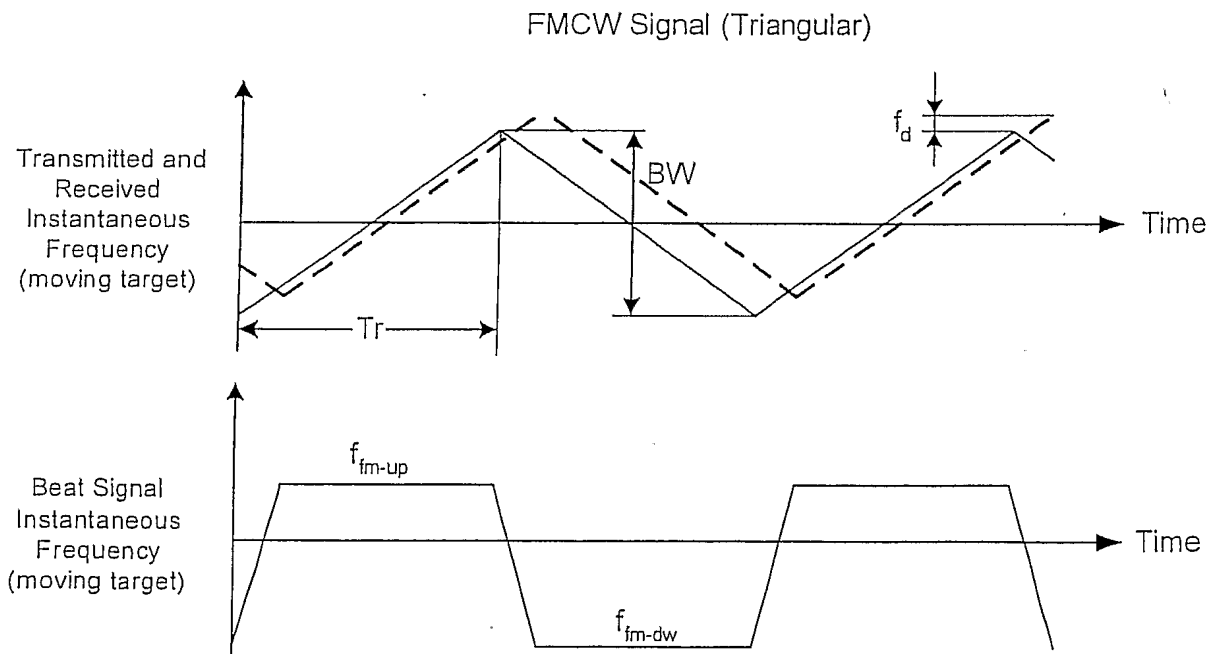


Figure 5b

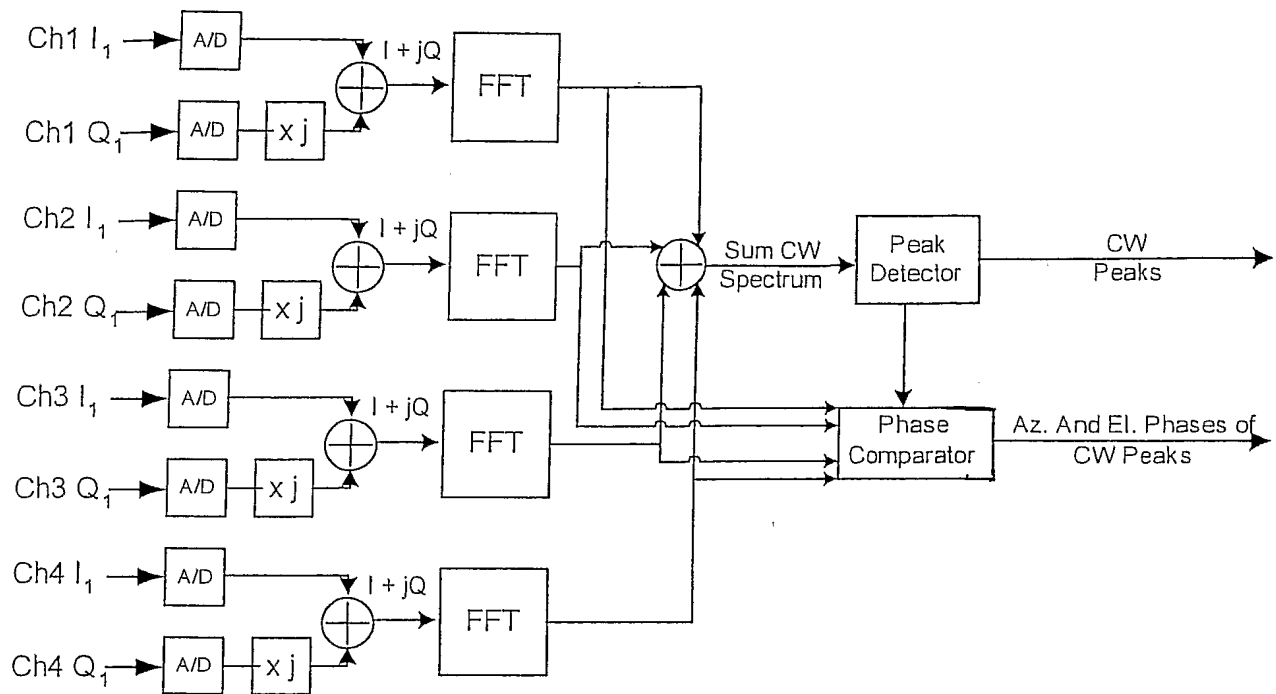


Figure 6a

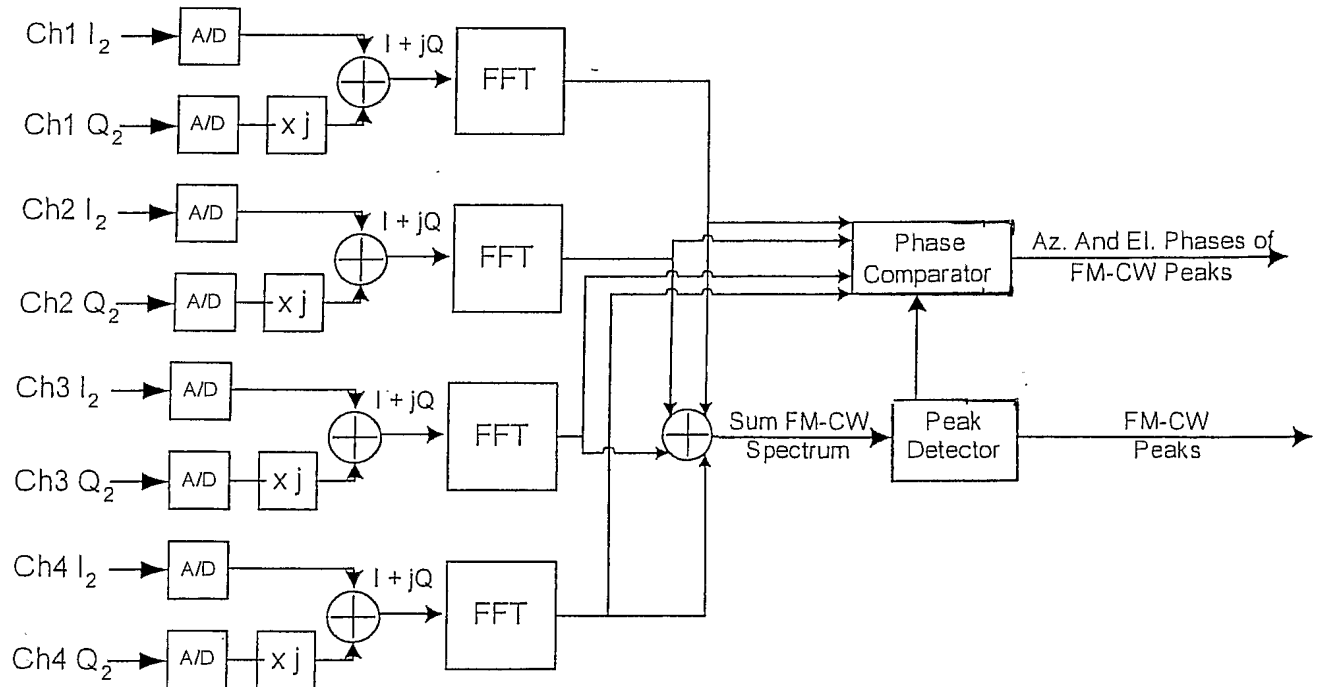


Figure 6b

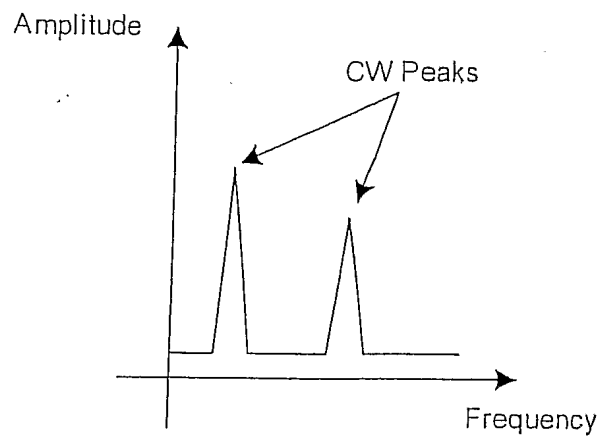


Figure 7a

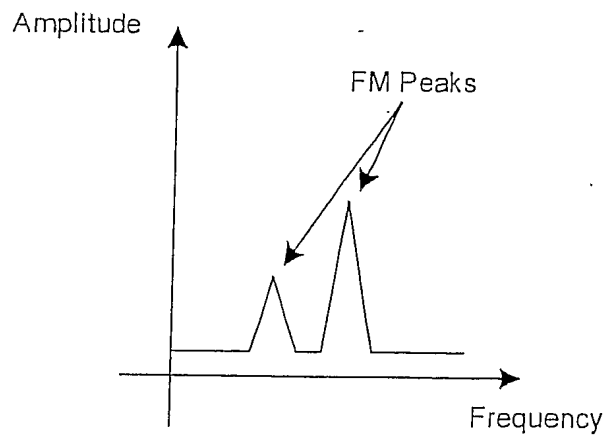


Figure 7b

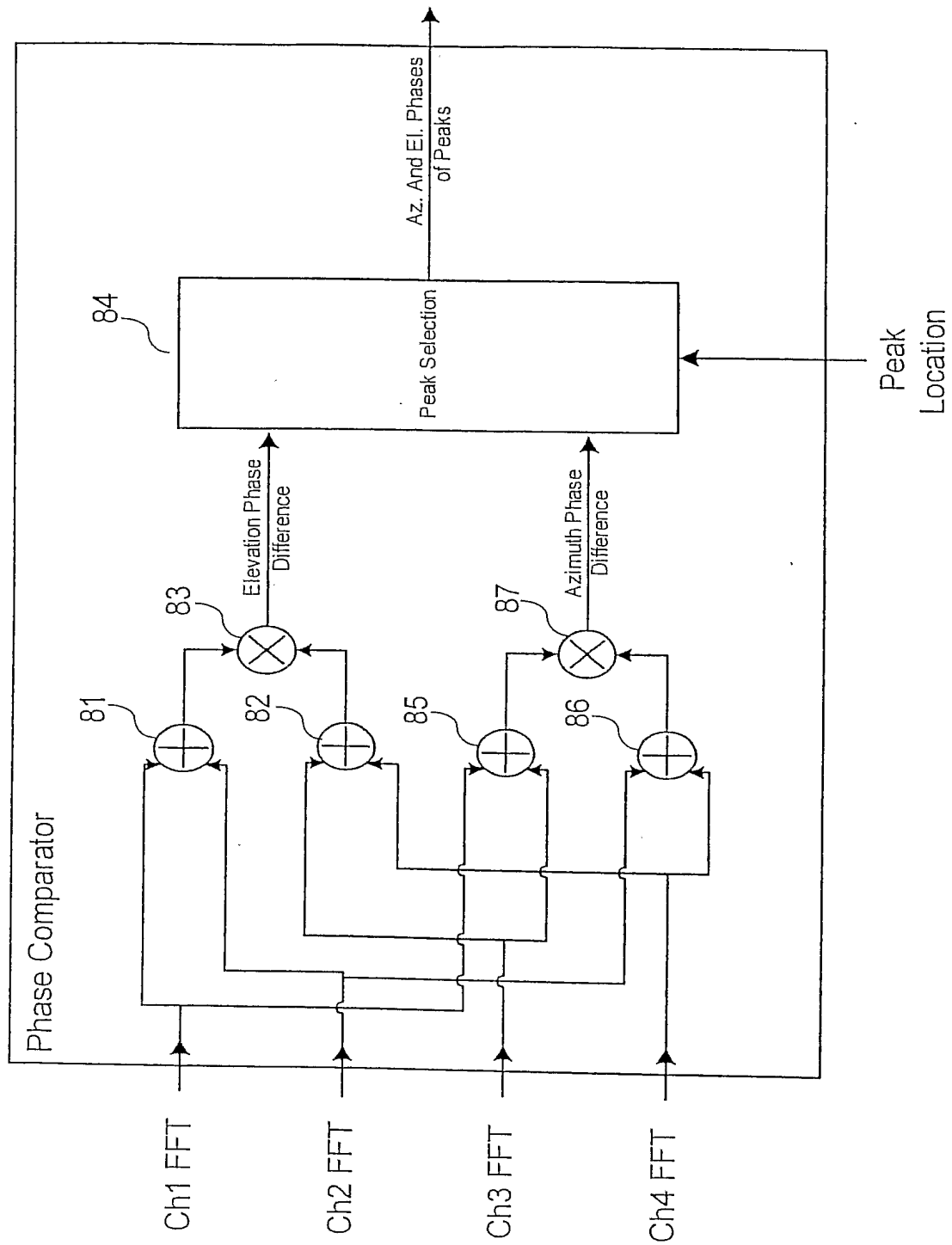


Figure 8



Frequencies of Peaks from FM Up-Ramp

$f_{fm-up1}$     $f_{fm-up2}$     $f_{fm-up1}$

Frequencies of Peaks from FM Down-Ramp

$f_{fm-up1}$	$f_{fm-up2}$	$f_{fm-up1}$							
$f_{fm-dw1}$	$f_{fm-dw2}$		$v_{11}$	$v_{21}$					
			$v_{12}$	$v_{22}$					
					$v_{ij}$				

$f_{fm-up i}$ : Frequency of upramp peak i  
 $f_{fm-dw j}$ : Frequency of downramp peak j  
 $v_{ij}$ : Velocity measurement derived from the selected pair of up- and downramp peaks

Figure 9

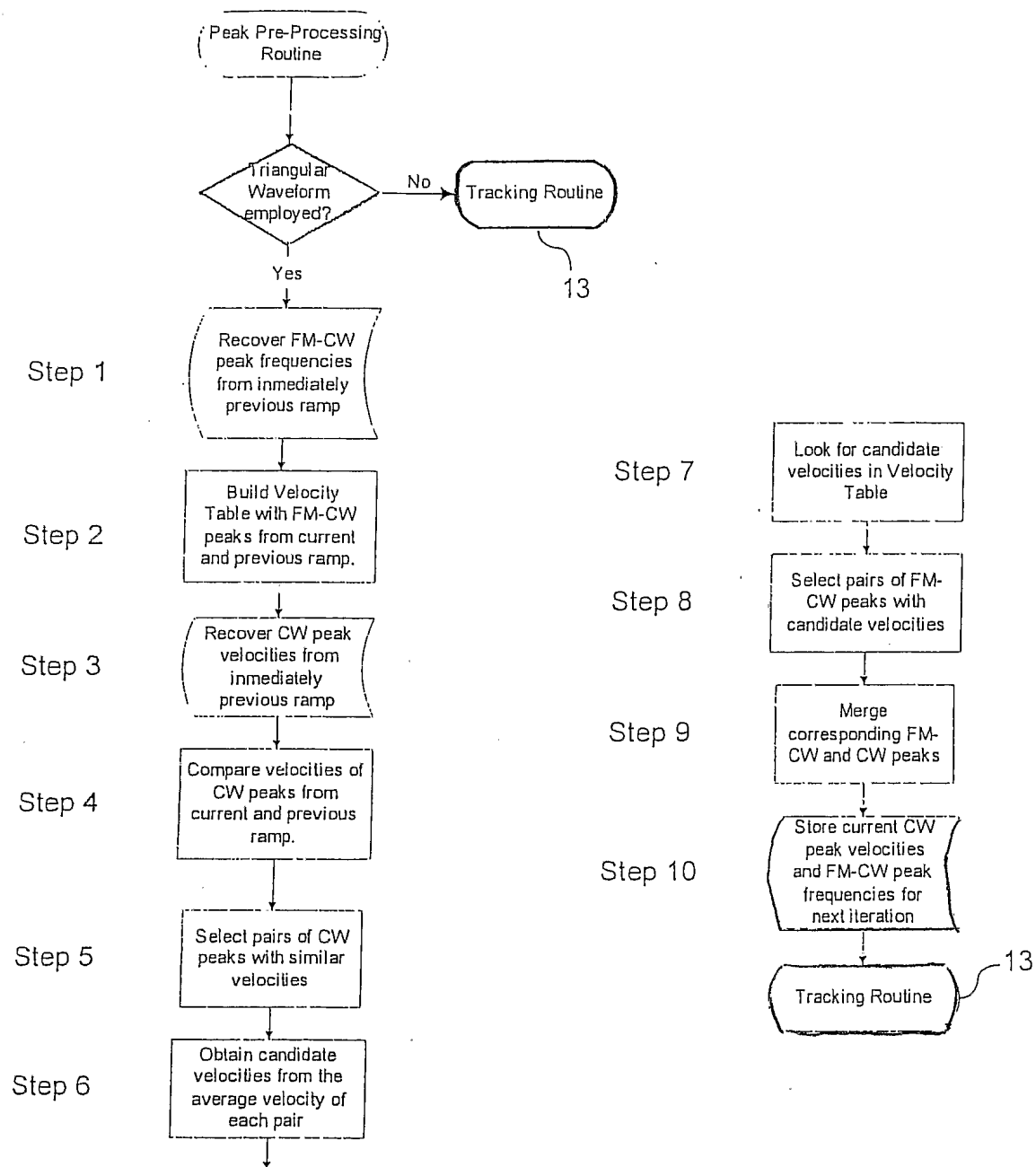


Figure 10

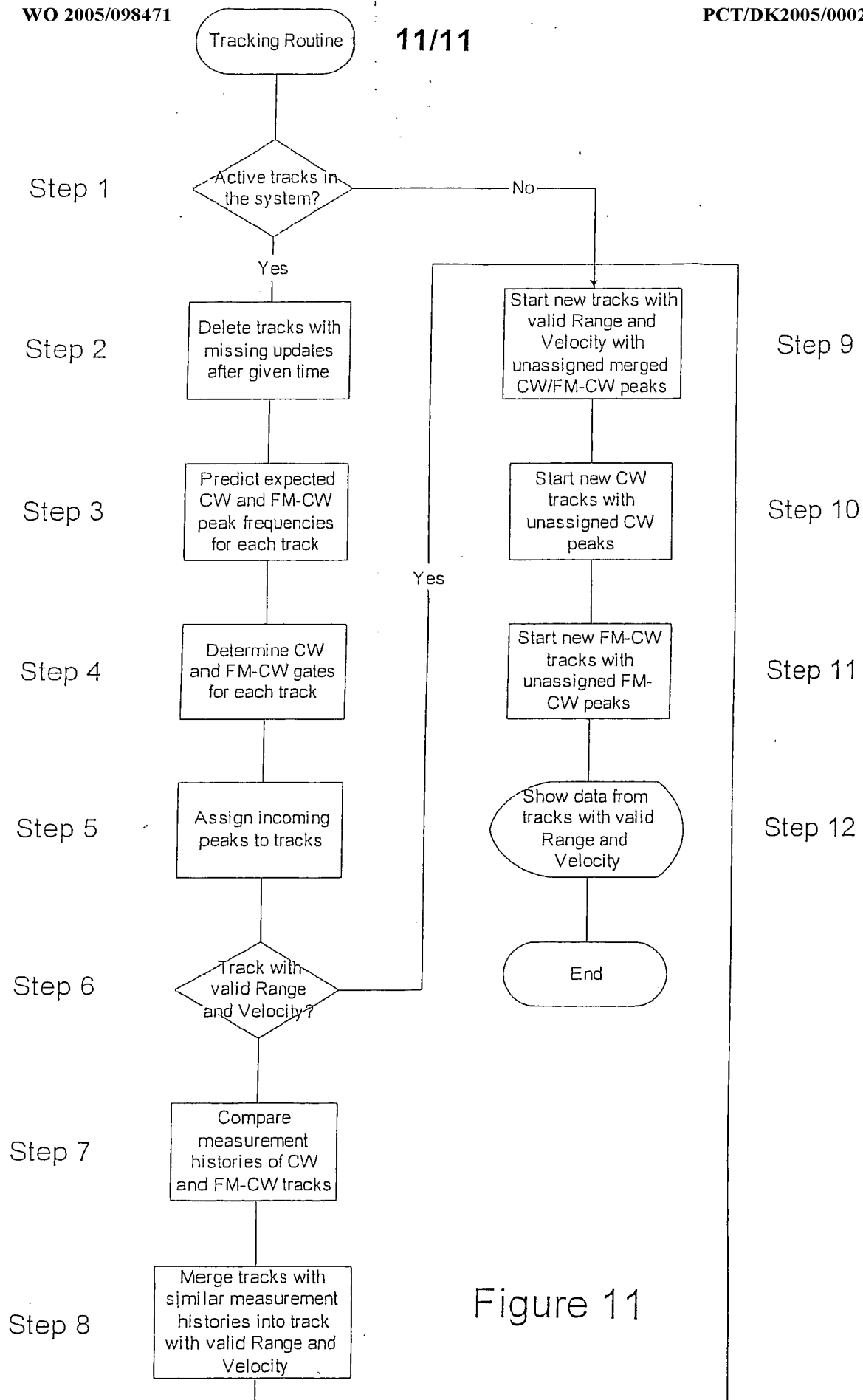


Figure 11